



CINCINNATI
MACHINING
General Products
Catalog

GRINDING

- Conventional and CNC Tool & Cutter Grinders
- Centerless Grinders, Centertype, Plain, Internal, Universal ID/OD, Very Large Roll Grinders
- Surface Grinders
- Rotary Surface Grinders

MILLING & DRILLING

- Manual & CNC Mills & Drills, Deep-Hole Drills

MACHINING CENTERS

- Vertical Machining Centers, Horizontal Machining Centers, Bridge-Type Verticals, Gantry-Type Verticals

BORING MILLS

- Horizontal Boring Mills
- Precision CNC Jig Bores
- Die/Mold Centers

TURNING

- Conventional and CNC Engine Lathes, Oil Field Lathes, Teach Lathes, Very Large Heavy-Duty Flatbed Lathes
- Turning Centers
- Vertical Turret Lathes

The Tradition Continues

Once considered the machine tool capitol of the world, Cincinnati has been home for more than 20 machine tool builders. Dating back more than a hundred years, at least a dozen of those companies have put the Cincinnati name on their machines. A long and hallowed tradition of hand crafted quality and excellence has made the "CINCINNATI" name synonymous with machine tools and associated industrial products.

Now, "The Tradition Continues" with quality machine tools and industrial products from CINCINNATI MACHINES.

The internet and globalization have changed the world and how we do business forever. Many of the industrial products and machine tools that were once manufactured here in the U.S. are now available only from off-shore manufacturers. And as time goes on, it becomes more and more difficult for customers to locate and acquire quality reliable machine tools and industrial products.

CINCINNATI MACHINES has embraced the internet and globalization to bring you a world of quality industrial products with a name that you can recognize and trust. We search the globe and do the leg work for you, to bring you the very best machine tool and industrial product values. And, regardless of where these products are manufactured, you can buy with the confidence of knowing that CINCINNATI MACHINES will stand behind them.

Contents

Support Services

Parts (parts@cinmac.com)	3
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Grinding

Tool and Cutter Grinders	4
Centerless Grinders	5
Internal Grinders.....	6
Universal ID/OD Grinders	6
CNC Step Grinders	7
Large CNC Heavy-Duty Centertype and Roll Grinders.....	7
Surface Grinders	8-9

Drilling

Radial Drills	10
Deep-Hole Drills	10, 24

Milling

Knee Type Milling Machines	10
----------------------------------	----

Machining Centers

Vertical Machining Centers	11-12-13
Horizontal Machining Centers	14
Boring Mills/Die/Mold Centers	15
Bridge-Type Verticals	16
Gantry-Type Verticals	14

Turning

Engine Lathes	18
Large & Oil Field Lathes	19
Large CNC & Oil Field Lathes	20
Turning Centers	21
Large Turning Centers.....	22
Vertical Turret Lathes	23

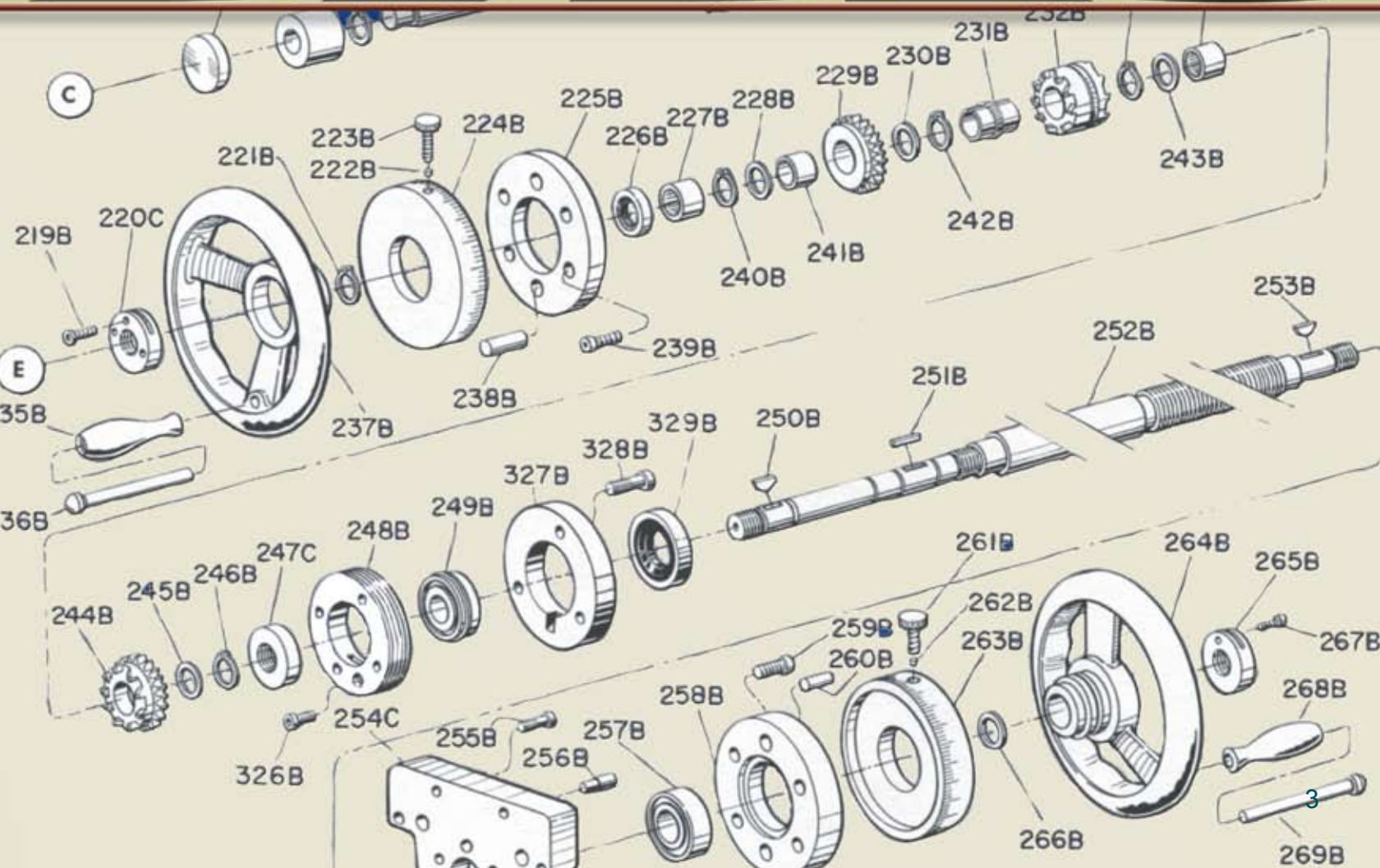
parts@cinmac.com

Call 1-888-999-5897

or Click-On www.cinmac.com

**for CINCINNATI,
HEALD, or PRATT & WHITNEY**

PARTS



#2 UNIVERSAL TOOL & CUTTER GRINDER

CINCINNATI MACHINES #2 Universal Tool & Cutter Grinder is the industry standard for precisely grinding cutters and tools of all kinds.



Precisely grind, sharpen and recondition parts and tools with complex shapes. Most tool grinding operations may be performed with the large compliment of standard tooling supplied with the machine. A wide variety of optional accessories, too numerous to list here are also available at extra cost.

Standard Equipment Tooling & Cabinet



See complete information at www.cinmac.com

Monaset XL/EZ CUTTER GRINDER



Monaset XL boasts seven axes movements on dual machine slide stacks plus its unique spiral mechanism that generates infinitely variable leads. The dual swivelling & dual linear slide workhead has proven to be a real asset when grinding radii. The offset slide for the grinding wheelhead permits the spindle centerline to be offset from the workhead centerline - a necessity when grinding convex or concave radii with centerline outside of the workpiece.

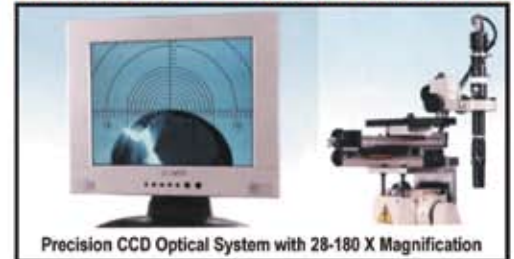
Monaset EZ retains all of these features while adding the accuracy and efficiency of ultra-precision linear and rotary encoder feedback readouts and CCD Optical system to enable the operator to see and grind minute work areas.

See complete information at www.cinmac.com

The Monaset grinder's combination swivelling turntable and moveable offset slide provide your shop with versatile capability to quickly setup and accurately generate convex and concave radii of varying sizes

Spiral Mechanism generates infinitely variable leads

Monaset EZ Extra Features



Precision CCD Optical System with 28-180 X Magnification



Tilting Grinding Head Provides 8 Machine Axes

Precision Digital Scales and Digital Readouts

V5A 5 AXIS CNC CUTTER GRINDER

CINCINNATI MACHINES V5A/V5Ae 5 Axis CNC Cutter and Tool Grinder combines state-of-the-art control technology with rigid machine construction, ball screws, and linear guide ways to provide the ultimate in cutter grinding capabilities. With grinding head power up to 10-hp and spindle speeds up to 6000rpm, the rigid spindle allows up to (4) 4" dia grinding wheels to be mounted at once to provide maximum productivity and versatility.

Whether you are using conventional grinding wheels, CBN or diamond wheels, grinding toolsteel or carbide, or grinding one or one million parts, you will make quick work of the job with

CINCINNATI MACHINES 5 Axis CNC Cutter and Tool Grinder.

2 Model Sizes *V5A* and *V5Ae* with capacities up to

[16" X axis](#), [9" Y axis](#), [10" Z axis](#), [360° C axis](#), [190° A axis](#)
[10" Max tool length](#), [8" Max tool dia.](#) [#40 or #50 Taper tools](#)
[4-Axis also available](#) See complete info at www.cinmac.com



XG SERIES CENTERLESS GRINDER

110-6XG



CINCINNATI MACHINES XG Series Centerless Grinders feature outboard supports for both the grinding and regulating wheels. This extra gripping power provides maximum rigidity for big machine performance in a very efficient compact package.

XG's can be equipped to handle virtually any centerless grinding job, from 0.04" diameter up to 4" diameter

220-8XG



ISO 9002



Z-XG CENTERLESS GRINDER

CINCINNATI MACHINES Z-XG Centerless Grinder takes the XG design to a whole new level of rigidity and performance. It is a general purpose heavy-duty centerless grinder suitable for a wide variety of High Performance thrufeed and infeed centerless grinding applications.

This kind of Performance and the ISO 9002 Quality, coupled with the very competitive pricing structure of the Z-XG Series, will put you ahead of your competition.

The Z-XG Series features 24" diameter grinding wheels and wheel widths up to 20", and up to 50-hp spindle drive motors. Part diameter capacities up to 6" is standard.

**ISO 9002
10,000 SFPM**



XGS SERIES CNC CENTERLESS GRINDER

CINCINNATI MACHINES XGS CNC Centerless Grinders feature Outboard Bearing Supports for both the grinding and regulating wheel spindles. The twin outboard bearing design provides maximum spindle rigidity with minimum spindle deflection. Add to that the standard 10,000 SFPM grinding wheel speed and the XGS is one high-performance grinder.



MISCELLANEOUS GRINDERS

Fanuc
CNC



ISO 9002

**AccuSize/TwInternal MANUAL & CNC
PRECISION INTERNAL GRINDERS**

CINCINNATI MACHINES **AccuSize** Precision Internal Grinders are very versatile machines that allow the operator to perform a wide variety of Toolroom or Production type operations.

QUICK SPECIFICATIONS

- I.D. Grinding Range.....0.25" - 6" dia.
- Max grinding length.....6"
- Swing over bed......20"
- Max swing in guard.....12.6"

QUICK FEATURES

- Production or Toolroom Cycles
- Automatic Grinding Cycles
- Automatic Truing Cycles
- Ballscrew Crossfeed Drive
- 0.00020" Typical Sizing
- ISO 9002 Quality Standards

Twinternal is a CNC 2-Spindle 5-Axis Production Wizard for ID/OD work that allow you to complete many grinding jobs in just one setup

See more about TwInternal at www.cinmac.com

**UNIVERSAL GRINDERS/
MULTI-SURFACE
GRINDING CENTERS**



NOW, THIS ONE MACHINE
WILL DO ALL OF YOUR
ID, OD, FACE, TRAVERSE, PLUNGE,
SHOULDER, TAPER,
AND STRAIGHT JOB LOT
AND/OR BATCH PRODUCTION GRINDING.

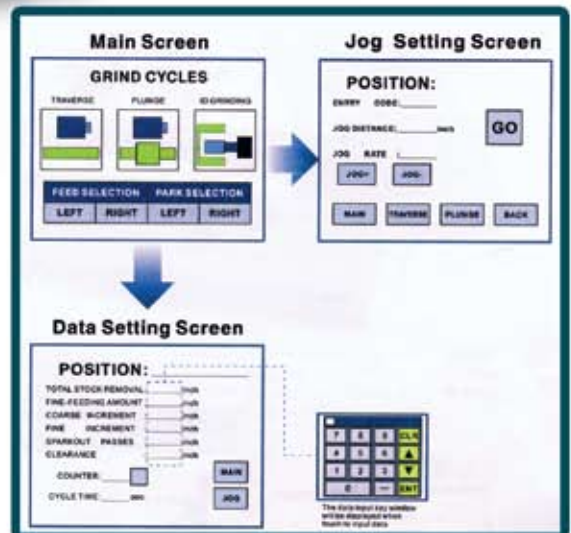
Choose from
7 available sizes
from 8x20 to 15x40

Choose a machine size to cover your range of parts and with the touch screen menu driven automatic cycles, you will be ready to tackle virtually any cylindrical grinding job that comes along.

UNIVERSAL ID/OD/FACE GRINDING JUST GOT EASIER

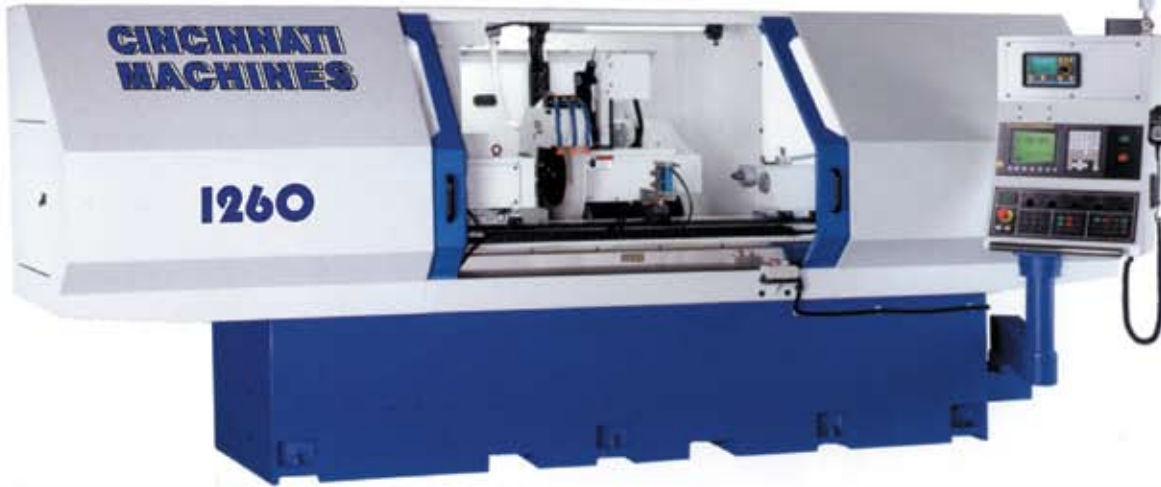
EASY TO LEARN AND SET

Simply select the desired grinding mode, then fill in the blanks to set total grinding amount, rough increment, fine increment, sparkout passes, feeding direction, parking position, and retracting clearance. Then press cycle start to complete the grinding cycle.



CNC MULTI-SURFACE AND ANGULAR STEP GRINDERS

**Choose Universal Table-Type models from 10x20 up to 15x60
Traveling Wheelhead Universal machines from 12x79 up to 20x120
and fixed angle head machines from 12x14 up to 15x32**



CNC Multi-Surface and Angular Step-Grinders build upon the performance of the Universal Multi-Surface Grinding Centers by engineering in the additional features and performance of FANUC CNC and ballscrews. Add the swing-down internal grinding attachment, and your multi-surface grinding capabilities are virtually limitless. The Angular Step-Grinder Models feature a different versatility with the ability to grind corners and shoulders with more rigidity for heavy-duty jobs. See more information on these and other Cincinnati Machines products at www.cinmac.com

LARGE HEAVY-DUTY CNC CENTERTYPE AND ROLL GRINDERS

**Call CINCINNATI MACHINES
at 888-999-5897
or "Click-On"
www.cinmac.com
For Really
Large Grinding Machines**



CINCINNATI MACHINES Large Heavy-Duty CNC Centertype & Roll Grinders are designed and built with heavy-duty castings to handle those large heavy-duty jobs. These machines are for those those really large parts like Steel Mill and printing rolls, large jet-liner landing gear, automotive axles, large motor armatures, etc. You can handle parts up to 120" diameter, more than 50' long weighing 110 Tons.

**Fanuc CNC
ISO 9002**

Available as traveling table-type or traveling wheelhead-type machine in dozens of sizes from 16" x 60" up to 120" x 630"

VERY LARGE PRECISION HEAVY-DUTY CNC CENTERTYPE AND ROLL GRINDERS

SURFACE GRINDING MACHINES

PRECISION MANUAL SURFACE GRINDERS

CINCINNATI MACHINES precision hand feed surface grinders feature ball-track ways and cable drive for smooth hand operation, along with heavy ribbed meehanite casting construction



618e and 6x18
SMALL PRECISION HAND FEED
TOOLROOM SURFACE GRINDERS

618e

- *6x18 Table
- *2 hp Motor
- *7x1/2 wheel
- *Ball ways
- *Cable drive

6x16

- *6x16 Table
- *2 hp Motor
- *7x1/2 wheel
- *Ball ways
- *Cable drive
- *0.0004" Fine downfeed



CINCINNATI MACHINES Precision Automatic Surface Grinders all feature heavy-ribbed meehanite castings with Vee and flat turcite coated table ways for smooth operation and accuracy. Each machine also includes dynamically balanced spindles and turcite cross ways

PRECISION AUTOMATIC SURFACE GRINDERS

WIDE VARIETY
OF SIZES

- 8x18, 10x20, 12x24, 16x32,
- 20x40, 20x60, 24x60, 24x80
- 32x80, 32x100, 32x120



LARGE BRIDGE-TYPE AUTOMATIC AND CNC SURFACE/WAY GRINDERS



Typical Way Grinding Applications

Multiple Heads Available



Available in a wide variety of sizes from 40x60 to 60x240

**PRECISION SURFACE GRINDING CENTERS
with MITSUBISHI Touch Screen Menu Driven Cycles**

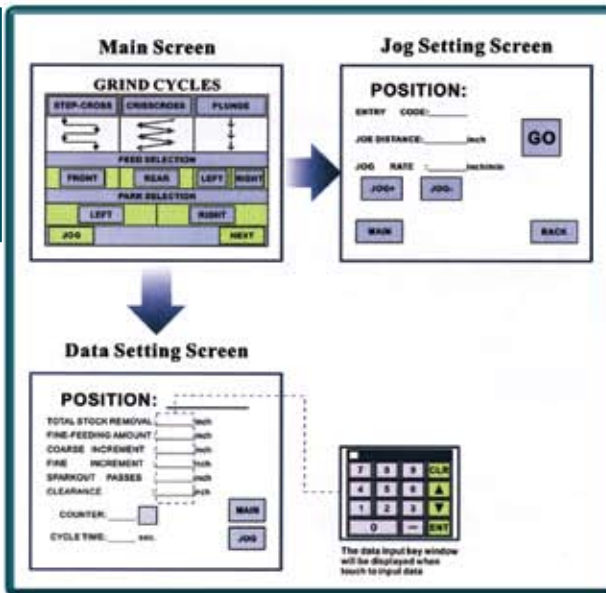
SURFACE GRINDING JUST GOT EASIER



You can also select Fanuc CNC

Simply select the desired grinding mode, fill in the blanks to set:
*total stock removal,
*total fine grinding amount,
*rough increment,
*fine increment,
*spark-out passes,
*and reset height.
Then press cycle start to complete

Choose from 6 available sizes from 6x18 to 20x60



**Micron Z ULTRA-PRECISION SURFACE GRINDING CENTERS
with MITSUBISHI Touch Screen Menu Driven Cycles**



Also Select Fanuc CNC

0.000010" Downfeed increment input

3 available sizes
8x20, 12x24,
16x32

Micron Z Ultra-Precision Surface Grinding Centers are designed and built from the ground up to provide maximum ultra-precision surface grinding capabilities.

Micron Z starts with massive heavily ribbed meehanite castings, and it shows as these machines weigh-in at about 50% more than other machines this size. The very rigid spindle rotates in class 7 precision bearings and the associated spindle motor and drive train are precisely balanced to insure vibration free accurate operation.

The wheelhead travels vertically on precision linear guideways, and is driven by precision ballscrew and AC servo motor providing an incredible downfeed increment input of 0.000010". The saddle and table slide ways are hydrostatic, precisely hand scraped, and Turcite coated double vee design for maximum accuracy. The coolant and hydraulic systems are isolated for stability.

R-Series PRECISION ROTARY SURFACE GRINDING CENTERS



RADIAL DRILLS/KNEE MILLS

CM Series RADIAL DRILLS



3 available models

CINCINNATI MACHINES
Features a wide range of Radial
Arm Drills ranging in
size from an 8" dia. column, 30" arm
and 2hp, up to
a 20" dia. column,
103" arm and 15hp.

All machine models feature massive
and rigid meehanite castings, hard-
ened and ground spindle, quill and
gears to provide heavy-duty drilling
capability at an affordable price.

Call 1-888-999-5897 or
"Click-On"

www.cinmac.com
for more information

HD Series RADIAL DRILLS



TCX Very Large Deep-Hole Drilling Machines

TCX Series

Very-Large
Deep-Hole Drills
are designed
and crafted
to handle the
deep-hole drilling
requirements of
the petroleum,
chemical,
nuclear and
energy
industries



Available in a number
of sizes and
configurations
1,2, or 3 spindle
BTA, STS,
or Gundrilling
120" Up to 280" X
100" up to 160" Y

MT/MTX SERIES KNEE MILLS



4 available
models

CINCINNATI MACHINES MT/MTX
and CinciMill Series Knee Type Mill-
ing Machines are designed and built
from the ground up to provide years
of reliable service.

All machines include:

- *anti-backlash leadscrew nuts
- * turcite plated saddles
- *class 7 spindle bearings
- *hardened and ground ways
- * VS pulley spindle drive.

The MT Series have dovetail ways,
while the MTX and CinciMill Series
machines have square ways.

Call 1-888-999-5897 or
"Click-On"

www.cinmac.com
for more information

CinciMill KNEE MILLS

CinciMill
5hp, 40 taper,
4.125" Quill dia.,
60-3600 rpm
59 x12 table,
47" table travel,
15" cross travel,
20" knee vert travel



Vector VERTICAL MACHINING CENTERS

VECTOR Vertical Machining Centers bring you an amazing array of construction features and capabilities usually found only in large expensive machining centers. For example, VECTOR 880 includes Fanuc CNC, ISO 9002 Quality Standards, massive rigid casting construction, 10 hp continuous spindle, heavy-duty hard square ways, 16 tool changer, #40Cat V-Flange Tooling, 60-6000rpm, full chip and coolant guarding, Cavernous Work Envelope 34"X, 20"Y, 24"Z

VECTOR is a General Purpose machine that shines the most when exposed to an environment with milling requirements for a wide range of materials including Aluminum, Cast-Iron, Tool Steel, Stainless, and Titanium

- Vector also offers a full range of available extra cost options, such as:
- *Increased spindle horsepower
 - *Increased spindle speeds
 - *High speed machining
 - *Various Control Systems
 - *Various rotary index and contouring tables
 - *Thru-the-spindle coolant
 - *Chip conveyor



ISO 9002

VC15 850	VC20 1000	VC20 1300	VC25 1600
15hp	20hp	20hp	25hp
#40	#40	#40	#50
CAT	CAT	CAT	CAT
8000	8000	8000	6000
RPM	RPM	RPM	RPM
33"X	42"X	52"X	63"X
20"Y	22"Y	26"Y	31"Y
24"Z	24"Z	24"Z	30"Z
16tls	20tls	20tls	24tls



V-FORCE VERTICAL MACHINING CENTERS

V-force Vertical Machining Centers are Heavy-Duty High-Performance Machining Centers.

These Heavy-Duty machines are designed and built from the ground up under ISO 9002 Quality Standards and all models include Fanuc CNC,

THERE IS NO SUBSTITUTE FOR POWER AND RIGIDITY

FANUC
CNC



ISO 9002

PLENTY OF MUSCLE TO HANDLE THOSE TOUGH MATERIALS LIKE TOOL STEEL, STAINLESS, TITANIUM, AND INCONEL

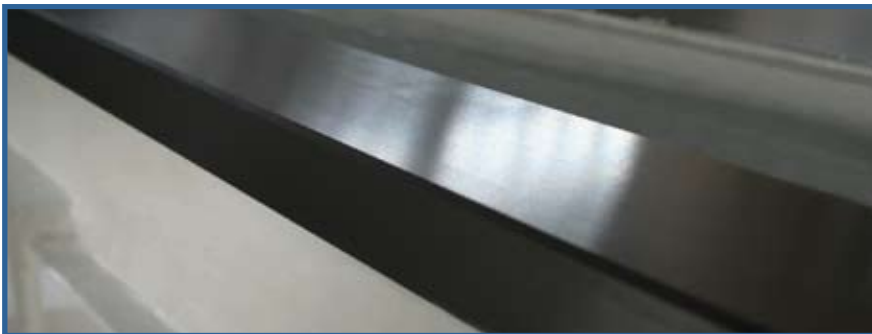


Available in 3 sizes, **SMARTe** features The Fanuc Oi-Mate CNC, Hard Box Ways, Tool Changer, 8,000 rpm Spindle, and 480 ipm Rapids as standard. With all of these quality features, you will be amazed at the affordability of **SMARTe**

SMART Series Machines

SMART Series Vertical Machining Centers are Hand-Crafted to World Class Engineering and Manufacturing Quality Standards. At the **SMART** factory Headquarters, Quality is more than a mind set, it is a culture. All critical parts such as, spindles, bearings, ball screws, and hydraulic units, etc are high-quality Japanese or Taiwan made and each component is quality inspected before assembly. The entire engineering and manufacturing process places much emphasis on the importance of design simplicity, efficiency, quality, and affordability. **SMART** machines include state-of-the-art heavy-duty meehanite castings that have been seasoned and annealed using the latest Hi-Tech processes. To insure quality, all **SMART** machines are subjected to a grueling set of tests at the halfway mark, including a 48 hour run test, along with accuracy and other checks for machine fit etc. Final machine runoff testing is much more comprehensive, and includes complete Renishaw ball bar and accuracy testing, an additional 48 hour test run under normal machine load conditions, and finally a complete 150 point machine inspection.

SMART, SMARTe, & SMART-XT
all feature Heavy-Duty Hard Box Ways
for Maximum Rigidity and Performance



SMART Vertical Machining Centers

SMART VMC's feature the Fanuc Oi-MD CNC, 16 Tool Changer, either CAT 40 taper tooling with 8,000 rpm, or CAT 50 Taper tooling and 6,000 rpm standard. **SMART** VMC's are available with virtually any machines options that you may wish, such as spindle speeds to 15,000 rpm, up to 35 HP, up to 5 Axes, various coolant systems, and tool changers up to 32 tools and Arm-Type, various type chip conveyors.



Let us start custom-crafting your **SMART** VMC today

SMART-XT MEANS EXTREME MILLING

**BIG PLUS 50 TAPER TOOLING FOR HARD MILLING
33 HP CONTINUOUS, 12000 RPM FANUC STATE-OF-THE-ART
2 SPEED HIGH-TORQUE HIGH-SPEED SPINDLE DRIVE/MOTOR
THAT DRIVES A HEAVY-DUTY BIG PLUS TAPER
SELF CONTAINED SPINDLE CARTRIDGE**

Available as **SMART-XT** 1100/1300/1600/2000.
(Size Specifications same as **SMART** 1100/1300/1600/2000 on next page)

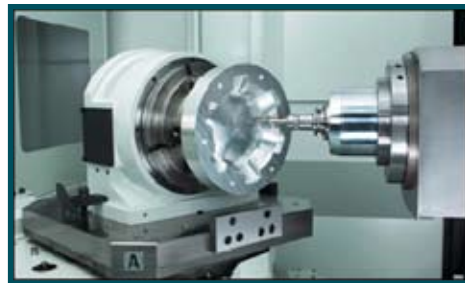
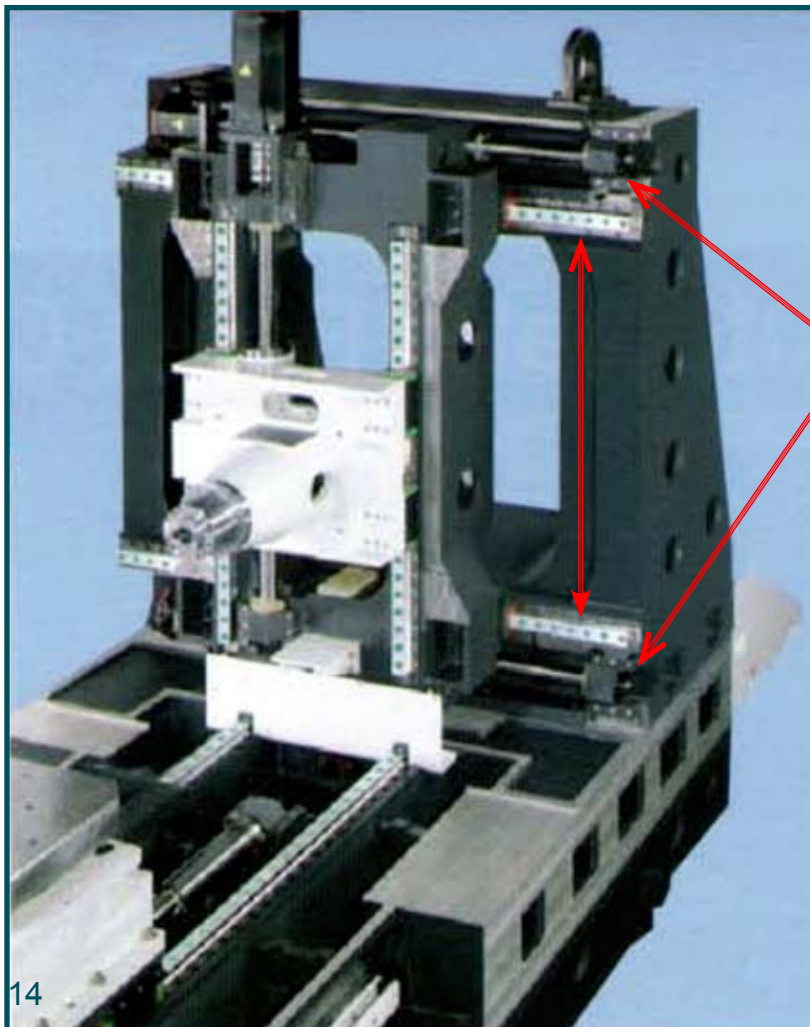


SMART i VMC's are manufactured from the ground up to provide high-speed machining capability. Fanuc 0i-MD CNC, 16 Tool Changer, up to 15,000 rpm CAT 40 Spindle, 1200 ipm Rapids, High-Quality Heavy-Duty **THK** Linear Guide Ways XYZ, and positioning accuracies of +/- 0.0002" are standard.

SMART High-Speed High-Performance Horizontal Machining Center



SMART Horizontal Machining Centers provide up to 2,000 ipm rapid rates, 15,000 rpm, 33hp (continuous), 120 Tools, and 4400 lb payload



Choose
4 or 5 Axes
Full
Contouring
or
Indexing

SMART's Extreme width Y-Axis ways and Twin Ball Screw Drive provide maximum speed and performance

15.7, 19.6, 24.8, or 31.4" Pallets

Automatic Pallet Changer



STANDARD!

SMART Series CNC Horizontal Boring Mills

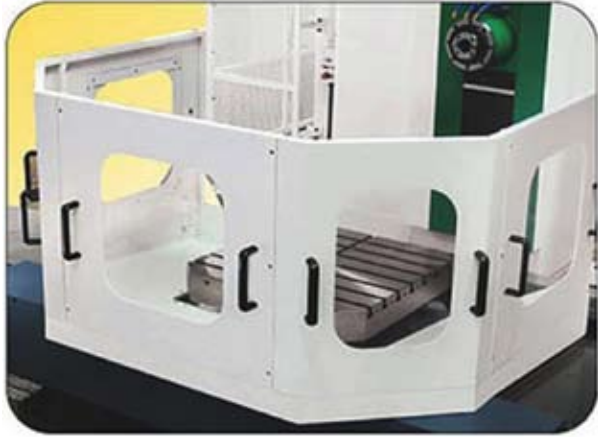
Several available sizes and configurations from 48"x80" up to 60" x120" with and without 22" W-Axis Quill



Automatic Tool Changer System
Standard chain type with 60 tools magazine ATC, provide safety and stable tools exchange. This will enhance machining flexibility and efficiency.

Working Table
The high precision indexing work table driven by a servo motor provides high accurate indexing. The working table can be indexed at least 1 degree, available for maximum table loading up to 3000 kg. The CNC boring and milling machine provides multiple faces machining at one time, boring, milling, drilling and tapping can be done just in one set-up.

Machine Base
The extra heavy, wide one-piece base has 4 slide ways. Box type column features outstanding stability in heavy duty machining and accurate dynamic level at all time.

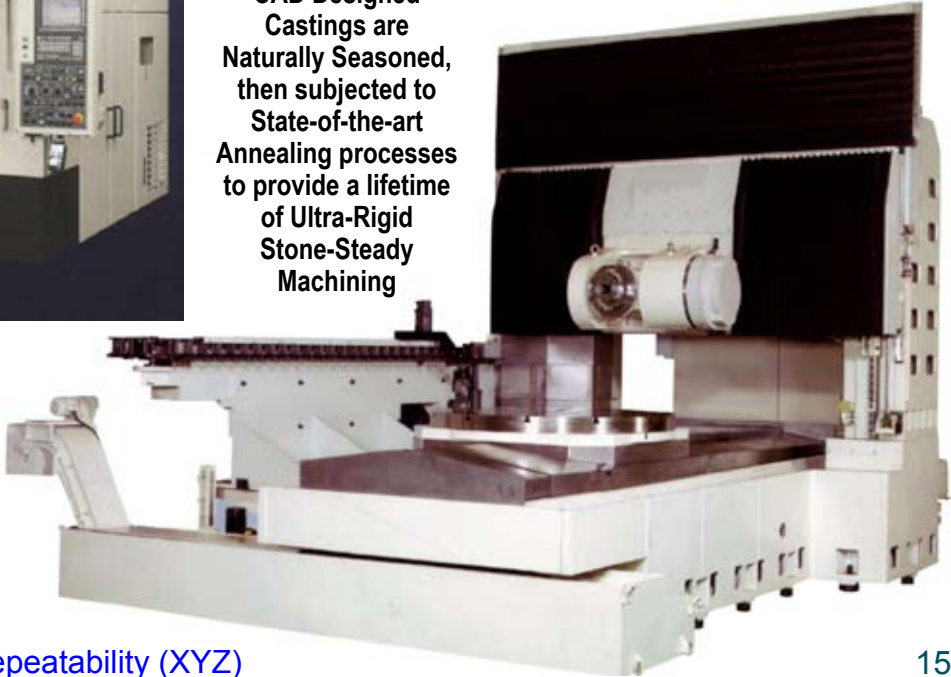


SMART Series 4&5 Axis High-Speed CNC Die/Mold Centers

CAD Designed Castings are Naturally Seasoned, then subjected to State-of-the-art Annealing processes to provide a lifetime of Ultra-Rigid Stone-Steady Machining



Several available sizes and configurations.
Select 4 or 5 Axis (Indexing or Contouring)
40"x48" up to 72"x74"
Cat 50 6,000 or 10,000 rpm





SMART
 Bridge-Type
 Vertical Machining
 Centers



With 10 available sizes from 40"x60" up to 130" x 423", Manual and CNC controlled Milling Heads from 3-5 Axes, and your choice of spindle speeds from 6,000 up to 12,000 rpm, SMART Gantry-Type Verticals can be hand-crafted to your exact requirement.

Go to www.cinmac.com and click-on Bridge/ Gantry or call 1-888-999-5897

	B & C axis 5 degrees manual adjustment (3500 Rpm)
	C axis Automatic 5 degrees adjustment
	Manual Universal Head
	45 degree Universal Head
	90 degree Manual adjustment head
	Extended Head (300 mm / 500 mm)



SMART Series

MAXOR

Gantry-Type 3&5 Axis Verticals

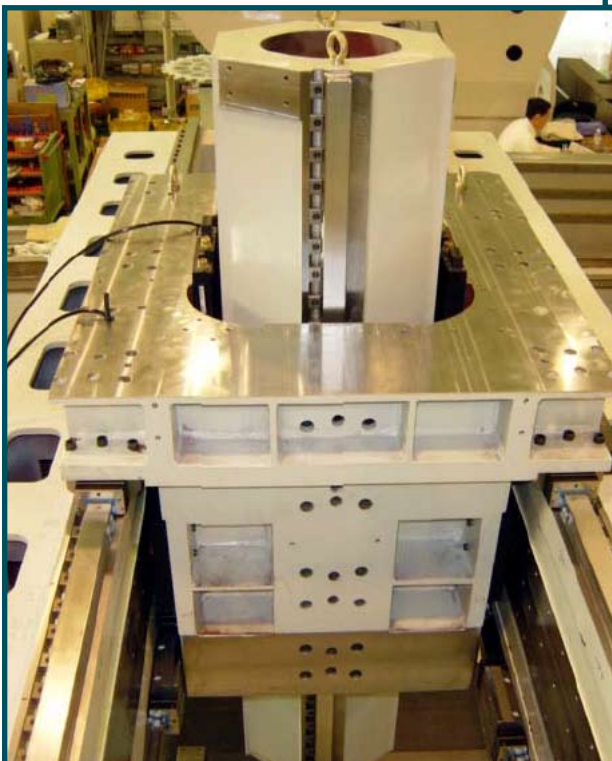
**Virtually Unlimited
Table-load Capacity**

With more than a dozen available sizes from 118"x118" up to 196" x 551", Manual and CNC controlled Milling Heads from 3-5 Axes, and your choice of spindle speeds up to 24,000 rpm, MaXor Gantry-Type Verticals can be hand-crafted to your exact requirement.

Go to www.cinmac.com and click-on Bridge/Gantry or call 1-888-999-5897 for more information

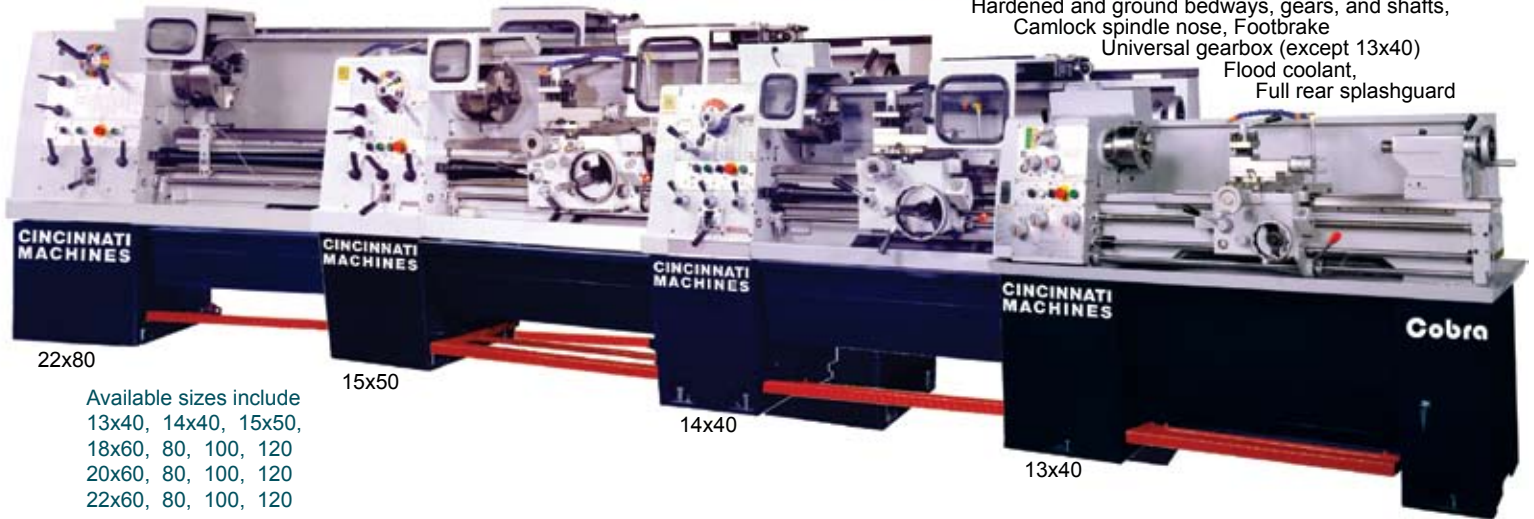


Unique CAD-Designed Box-in-Box Construction provides optimized castings for maximum rigidity with High Traverse rates of 1,000 ipm



Cobra SERIES ENGINE LATHES

Hardened and ground bedways, gears, and shafts,
Camlock spindle nose, Footbrake
Universal gearbox (except 13x40)
Flood coolant,
Full rear splashguard



22x80

15x50

14x40

13x40

Available sizes include
13x40, 14x40, 15x50,
18x60, 80, 100, 120
20x60, 80, 100, 120
22x60, 80, 100, 120

PYTHON is an inter-mediate size heavy-duty gap-bed engine lathe with a very impressive list of quality construction features, such as:

- *4.125" thru-hole (D1-11)
- *Rapid traverse longitudinal
- *Crossslide backlash eliminator
- *15 HP Main Motor
- *16 speeds 10 - 1395 rpm
- *16" gap width

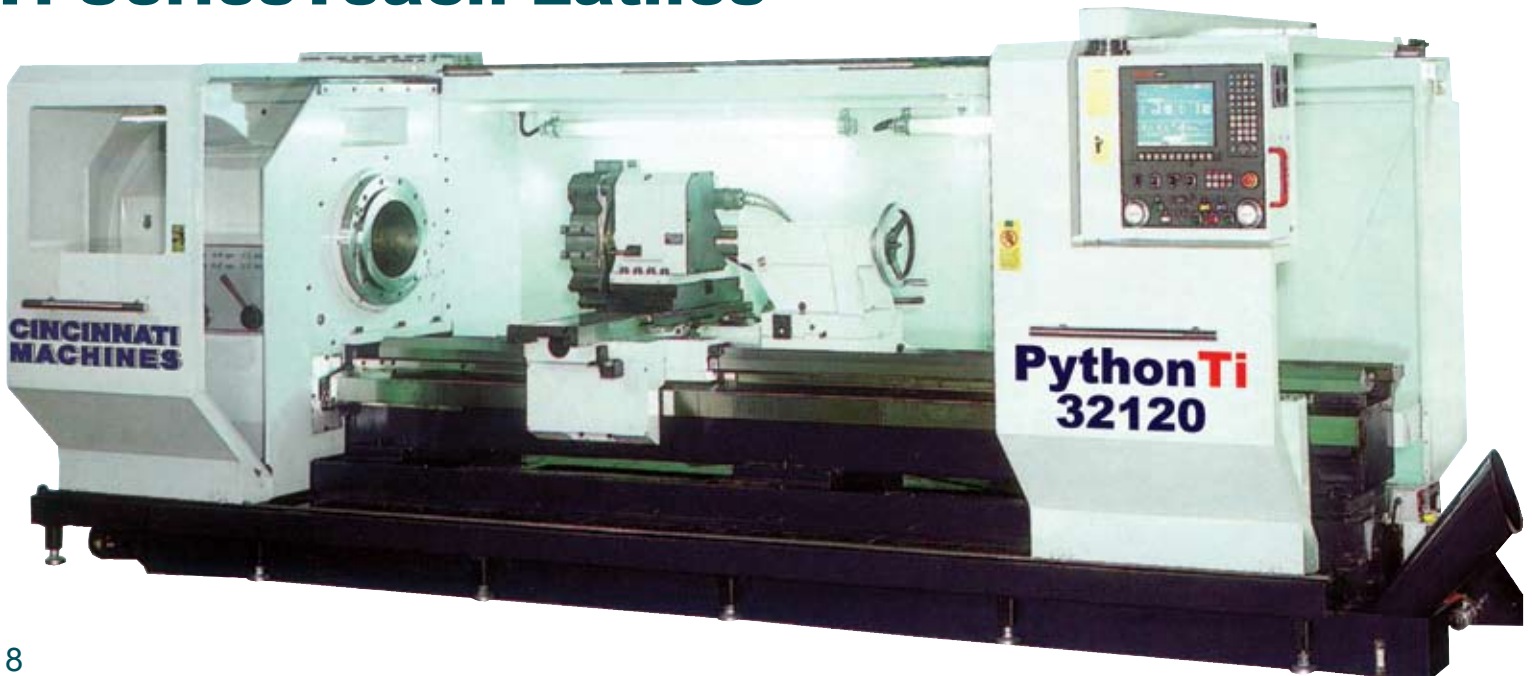
You will also find a large complement of available tooling and optional accessories.

26x60 26x80 26x120 26x160
30x60 30x80 30x120 30x160

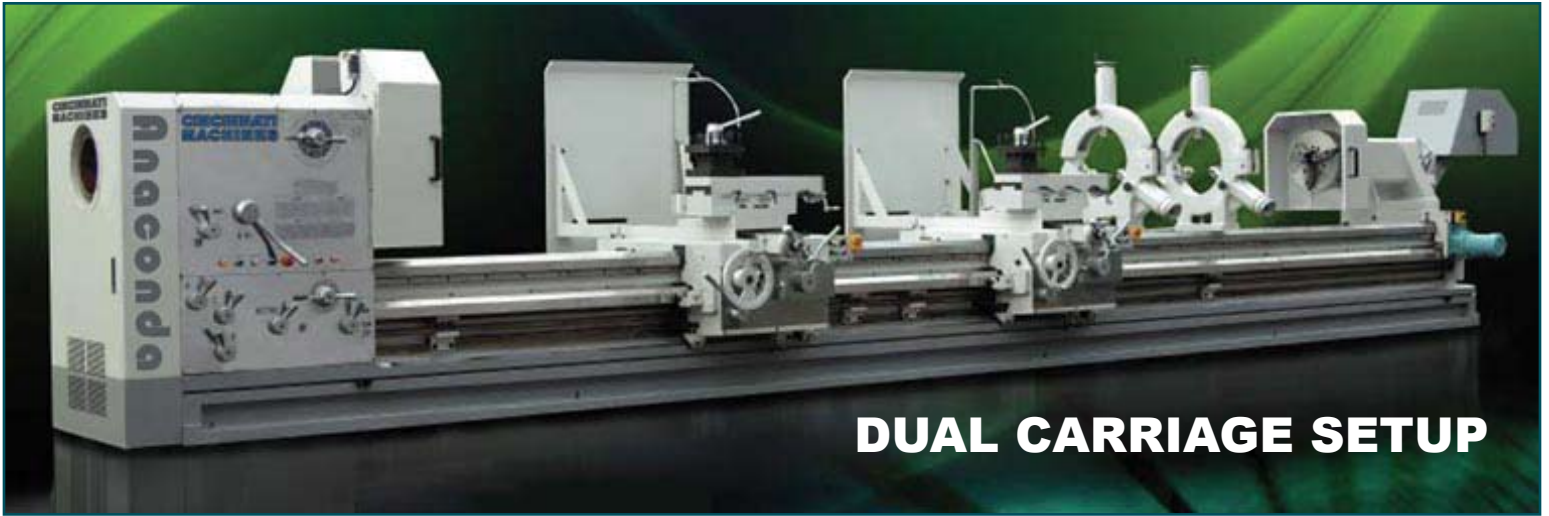
Python SERIES ENGINE LATHES



Ti Series Teach Lathes



Anaconda Large Heavy-Duty Engine Lathes



DUAL CARRIAGE SETUP

Precision-built to your specific Oil-Field or Large Turning Requirements



DUAL TOOL-POSTS SETUP



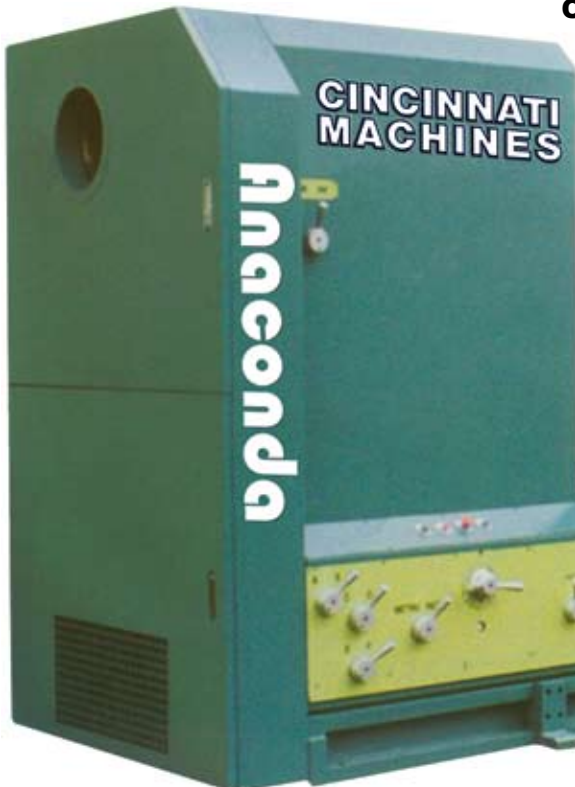
BIG BORES TO 24"

VERY LARGE HEAVY-DUTY AND OIL-COUNTRY LATHES AVAILABLE IN HUNDREDS OF SIZES



FRONT/REAR CHUCKS

FEED-THRU STEADY RESTS SYSTEM



**35" TO 100" SWING
6" TO 24" THRU-HOLE
UP TO 100HP
60" TO 480" CENTERS
50 TON CAPACITY**

**VARIOUS CHUCKS, FACEPLATES, STEADIES,
SEMI-AUTO TURNING/THREADING CYCLES,
TAPER AND/OR TRACER ATTACHMENTS**

VERY LARGE HEAVY-DUTY CNC LATHES

Cf Series Large Heavy-Duty CNC Flatbed Lathes



HEAVY-DUTY HARD WAYS



BIG BORES TO 24"



FRONT/REAR CHUCKS

Live-Tooling C-Axis & Y-Axis

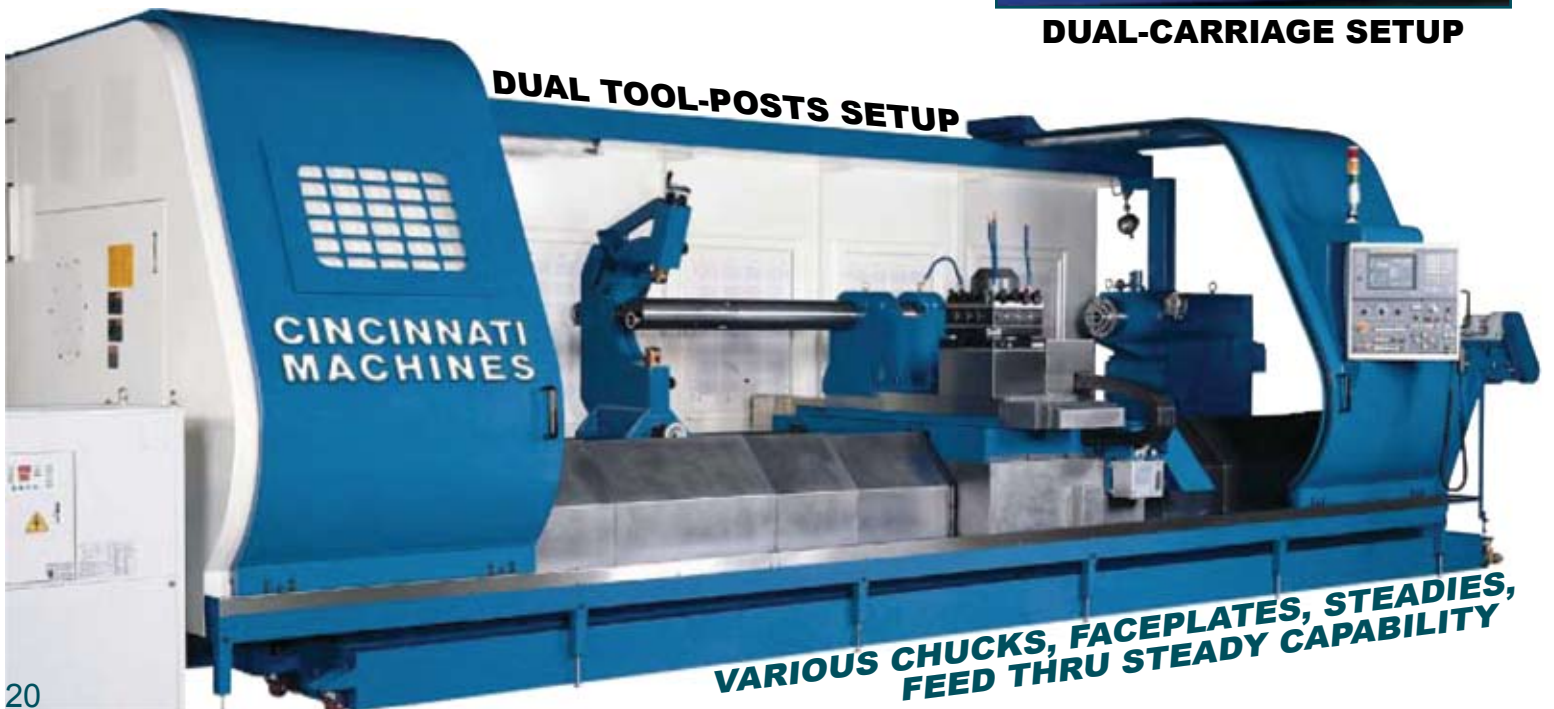
VERY LARGE HEAVY-DUTY AND OIL-COUNTRY LATHES AVAILABLE IN HUNDREDS OF SIZES

- 35" TO 80" SWING**
- 6" TO 24" THRU-HOLE**
- UP TO 100HP**
- 60" TO 1000" CENTERS**
- 50 TON CAPACITY**



DUAL-CARRIAGE SETUP

DUAL TOOL-POSTS SETUP



VARIOUS CHUCKS, FACEPLATES, STEADIES, FEED THRU STEADY CAPABILITY



Small High-Speed Turning Centers

Up to 6,000-rpm, 600-ipm, 1200-ipm Z,
Slant Bed Design, Very Affordable,
Available Live-Tooling, Probes,
Bar-Feeders, Choice of CNC



Teach-In CNC
also available

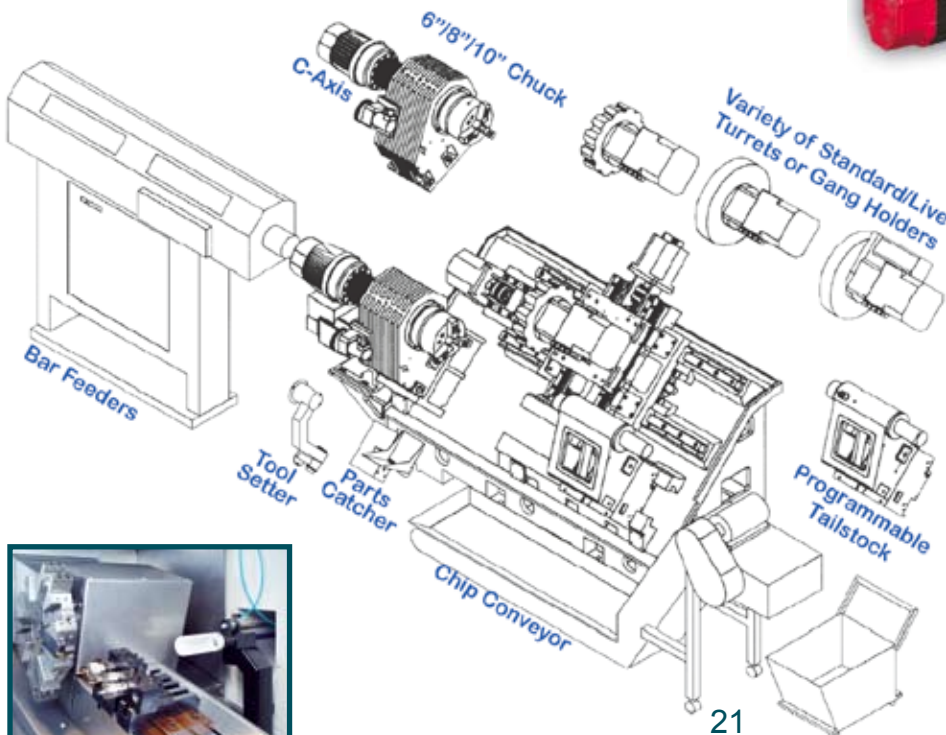
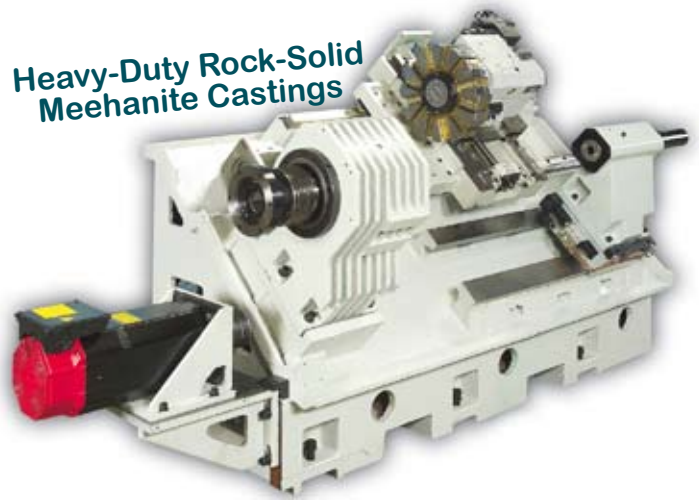
7 SMART Models/Sizes to 20"x40" Capacity



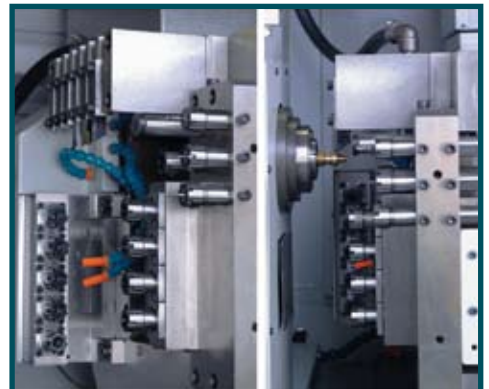
Up to 6,000 rpm and 25 HP

SMART Series High-Speed Production Turning Centers

Heavy-Duty Rock-Solid
Meehanite Castings



SMART Turning Centers are Hand-Crafted to include virtually any features you may require, including a variety of Chucks, Collet Systems, Static or Live-Tooling, Turret or Gang-Type Tool Holding, Parts Catchers, Bar-Feeders, Tool and or Part Setting Probes, etc

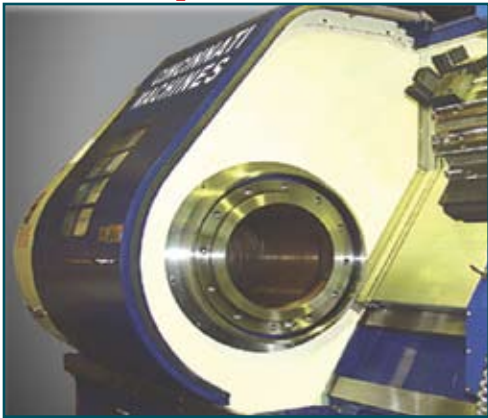


CS/CSX Series Large Slantbed Turning Centers

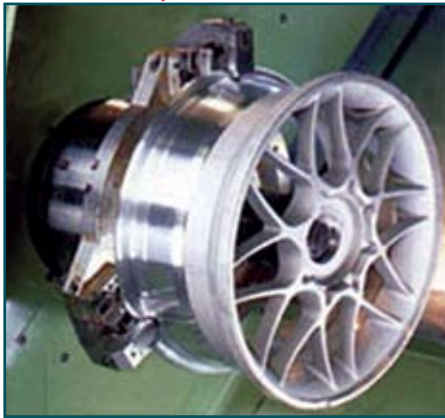
Up to 45" Swing, 205" Centers, 60-HP, and 24" Bores



With up to 40 Tons of Machine, we are talking Serious Turning



BIG BORES TO 24"



WHEEL TURNING MODELS



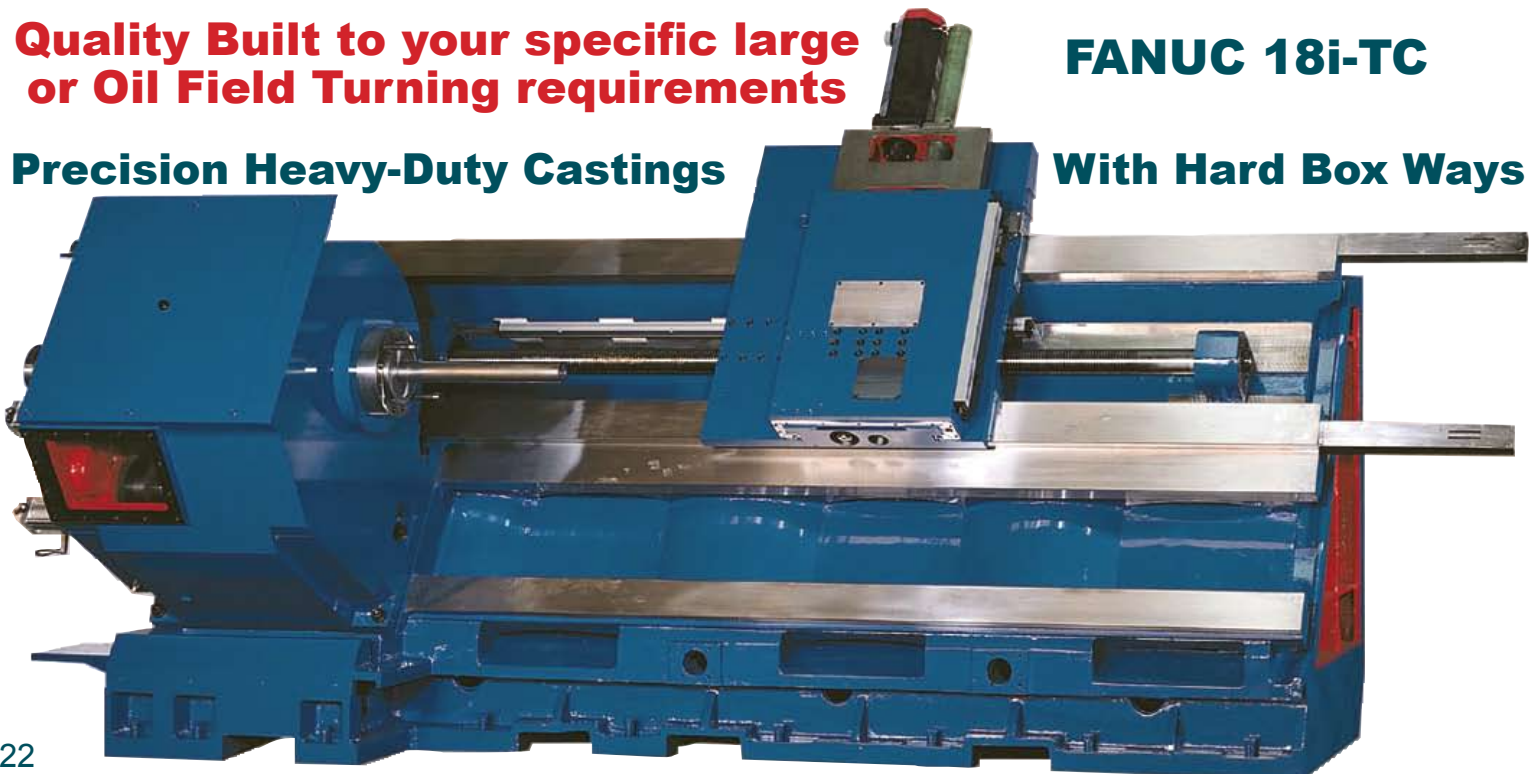
SUB-SPINDLE

Quality Built to your specific large or Oil Field Turning requirements

FANUC 18i-TC

Precision Heavy-Duty Castings

With Hard Box Ways



Cinturion Series Vertical Turning Centers

**10
Available
Sizes
and
Models**



Precision Heavy-Duty Castings With Hard Box Ways

**4' Up to 20' Tables,
20' Turning Diameter,
72" Cutting Height
Huge Weight Capacity**



**Your Choice of Turrets,
Live Tooling with
Tool Changers,
CF Servo Axis**



Pallet Changers



**Up to 100 Ton
Machine Weight**



TCX Series Deep-Hole Drills



Machine Specifications and Features shown in this catalog are provided as a guide only and are subject to change without notice.



CINCINNATI MACHINES
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Cincinnati, OH 45203
888 999-5897 513 681-1953 Fax 513 853-6151
www.cinmac.com sales@cinmac.com parts@cinmac.com

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<http://www.mcspt.com> parts@cinmac.com

NEW MACHINE TERMS AND CONDITIONS OF SALE CTN-101

This proposal is given or accepted on and subject to the following terms & conditions, which may not be modified except in writing signed by a duly authorized agent of Cincinnati Machines, Inc. (Cincinnati Machines). CINCINNATI MACHINES EXPRESSLY OBJECTS TO THE INCLUSION OF ANY DIFFERENT OR ADDITIONAL TERMS AND OR CONDITIONS PROPOSED BY PURCHASER IN PURCHASER'S ACCEPTANCE OF THIS OFFER TO SELL, AND IF THEY ARE INCLUDED IN PURCHASER'S ACCEPTANCE, A CONTRACT FOR SALE WILL RESULT UPON CINCINNATI MACHINES' TERMS AND CONDITIONS AS STATED HEREIN. IN ADDITION, IF THIS DOCUMENT IS DEEMED AN ACCEPTANCE OF AN OFFER TO BUY FROM PURCHASER, SUCH ACCEPTANCE IS EXPRESSLY MADE CONDITIONAL ON PURCHASER'S ASSENT TO ANY TERMS ADDITIONAL TO OR DIFFERENT FROM THOSE PROPOSED IN PURCHASER'S ORDER OR ORDER TO BUY. SUCH ASSENT SHALL BE DEEMED TO OCCUR UPON THE FAILURE OF PURCHASER TO SPECIFICALLY OBJECT IN WRITING WITHIN 10 DAYS FROM THE RECEIPT HEREOF, OR BY PURCHASER'S PARTIAL OR COMPLETE PERFORMANCE INCLUDING BUT NOT LIMITED TO PAYMENT OR ACCEPTANCE OF PRODUCTS.

PRICES: Prices are F.O.B. Buyer's truck(s), Cincinnati, Ohio, unless otherwise stated. It is the Buyer's sole responsibility to arrange and provide proper conveyance for the subject machinery. Proper conveyance shall include, but not be limited to, utilizing airride and covered equipment throughout the shipment. Cincinnati Machines shall void the warranty of any machinery that is not, as a minimum, transported utilizing the above listed standards.

PAYMENT TERMS: 50% with purchase order, additional 40% before shipment, 10% balance net 30 days from shipment.

LIMITED WARRANTY: Cincinnati Machines warrants that all Parts of the new machine will be free from defects in material and workmanship under normal use and service for a period of one (1) year from shipment. If any Part(s) proves to be defective within such one-year warranty period, the customer must return the defective Part(s), freight prepaid to Cincinnati Machines, however it is recommended that the Buyer first contact Cincinnati Machines to attempt to determine the nature of the problem. Cincinnati Machines, at its sole discretion, will repair, replace, or adjust the defective Part(s), provided that Cincinnati Machines' investigation and in-house inspection determines that, (a) such defect developed under normal and proper use and, (b) the Part is covered under this warranty. Repair, replacement, or adjustment of defective Part shall be Cincinnati Machines' sole obligation and the customer's sole remedy hereunder. Cincinnati Machines shall not be obligated to perform preventive maintenance, installation, de-installation, relocation or maintenance. This warranty is fully transferable provided the current owner furnished the original product invoice from Cincinnati Machines, and the product has proof of proper conveyance, according to above listed standards, since original shipment.

INDEMNIFICATION: Buyer agrees to indemnify and hold Cincinnati Machines harmless from any and all liability, loss, or damages which Cincinnati Machines may suffer as a result of claims, demands, costs or judgements made against Cincinnati Machines arising out of any use whatsoever of the machinery and equipment sold pursuant to this agreement, which liability, loss or damages, claims demands or judgements are based upon or result from (1) the failure of Buyer, Buyer's officers, agents, or employees to follow manufacturer's instructions, warnings, or recommendations; or (2) the failure of Buyer, Buyer's officers, agents, or employees to comply with federal, state, or local laws or regulations applicable to the use of such equipment, including, but not limited to the 1970 Occupational Safety and Health Act as amended; or (3) any liability, loss or damages, claims, demands, costs or judgements based upon or resulting from any negligence or alleged negligence of Cincinnati Machines or any Cincinnati Machines' officers, agents or employees in the sale of the equipment that is the subject of this agreement; or (4) any liability, loss or damages, claims, demands, costs or judgements based upon or resulting from any legal theory of strict liability without fault applied to Buyer or Cincinnati Machines or to the actual manufacturer of the subject machinery or equipment to Cincinnati Machines; or (5) any liability, loss or damages, claims, demands, costs or judgements based upon or resulting from, any theory or breach of any kind.

DISCLAIMER OF WARRANTIES: There are no warranties expressed or implied, including warranties of merchantability and fitness for purpose made by Cincinnati Machines in connection with this sale, except as expressly set forth herein. Buyer in purchasing equipment, agrees upon receipt of machinery subject to this agreement, it will be buyer's duty to inspect all machinery on a continuing basis; provide proper safety devices and equipment or means necessary to safeguard the operator from harm for any particular use, operation or setup of machines; to adequately safeguard each machine or equipment to meet all government safety standards which may be imposed from time to time, including but not limited to, 1970 Occupational Safety and Health Act.

LIMITATION OF LIABILITY: No claim made hereunder by the Buyer, whether as to a machine delivered or for non-delivery shall be greater than the purchase price of the machine with respect to which claim is made. Furthermore, under no circumstances, shall Cincinnati Machines, and/or Cincinnati Machines' officers, directors, shareholders, and employees, be responsible for any damages, costs or expenses (actual, compensatory, consequential, punitive, or otherwise) arising directly and/or indirectly from the machine sold hereunder, Buyer's use of such machine, any claims of breach of warranty, and/or the use of the machine by parties purchasing the machine from Buyer.

GOVERNING LAW: This agreement shall be construed according to the laws of the State of Ohio. Further, it is agreed that any claims relative to this agreement, or the machinery and equipment purchased herein, shall be brought in the appropriate Court in Hamilton County, Ohio.